KHOKHRUNOV, K.V., inzh.

Automatic line for the production of electric motor.frames. Vest.
elektroprom. 31 no.3:30-34 Mr '60. (MIRA 13:6)
(Electric motors--Design and construction)

POLETAYEV, A.S., zasluzhennyy vrach RSFSR, glavnyy vrach; KHOKHRUNOVA, M.N.

Experiment of releasing patients with scarlet fever on the 21st day after the onset of the disease. Vop.pediat. 21 no.3:10-12 My-Je '53.
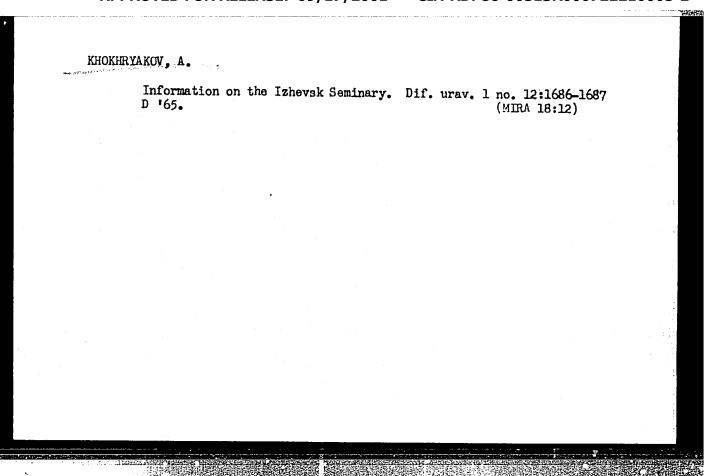(MLRA 6:7)

1. Detskaya infektsionnaya bol'nitsa g. Yaroslavlya.
(Scarlet fever)

GOPIUS, A.Ye.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

    Testing automobile radiators made of arsenic brass. Trudy
    Giprotsvetmetobrabotka no.20:280-286 '61.   (MIRA 15:2)
       (Automobile--Radiators)   (Brass--Testing)

KHOKHRYAKOV, A.

Information on the Izhevsk Seminary. Dif. urav. 1 no. 12:1686-1687
D '65.   (MIRA 18:12)

GOPIUS, A.Ye., kand.tekhn.nauk; MINKIN, M.L., kand.tekhn.nauk; NAUMOVA,
    M.M.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

Investigating materials for radiator pipes of automobile engines.
Avt.prom. 28 no.5:15-17 My '62.   (MIRA 15:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
obrabotki tsvetnykh metallov, Gosudarstvennyy soyuznyy ordena
Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy
i avtomotornyy institut i Gor'kovskiy avtozavod.
        (Automobiles--Radiators) (Brass--Testing)

KHOKHRYAKOV, A.P.

New localities of relict calcareous flora in the Northern Urals.
Bot.zhur. 44 no.12:1727-1730 D '59.   (MIRA 13:4)

1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy
Moskovskaya oblast'.
        (Deneshkin Kamen' region--Botany)

KHOKHRYAKOV, A.P.

Some characteristics of morphogenesis in Pyrolaceae of Central
Russia. Bot.zhur. 46 no.3:361-364 Mr '61   (MIRA 14:3)

1. Glavnyy botanicheskiy sad AN SSSR, Moskova.
    (Moscow Province—Wintergreen)
      (Botany—Morphology)

KHOKHRYAKOV, A. P.

Materials on studying the genus Eremurus. Biul. Glav. bot.
sada no.47:26-32 '62.   (MIRA 16:1)

1. Glavnyy botanicheskiy sad AN SSSR.

(Soviet Central Asia—Desert candle)

KHOKHRYAKOV, A.P.

Pine and smoke tree in the Svyatyye Gory near Slavyansk. Bot.
zhur. 47 no.5:715-720 My '62.   (MIRA 16:5)

1. Glavnyy botanicheskiy sad, Moskva.
      (Slavyansk region--Pine) (Slavyansk region--Smoke tree)
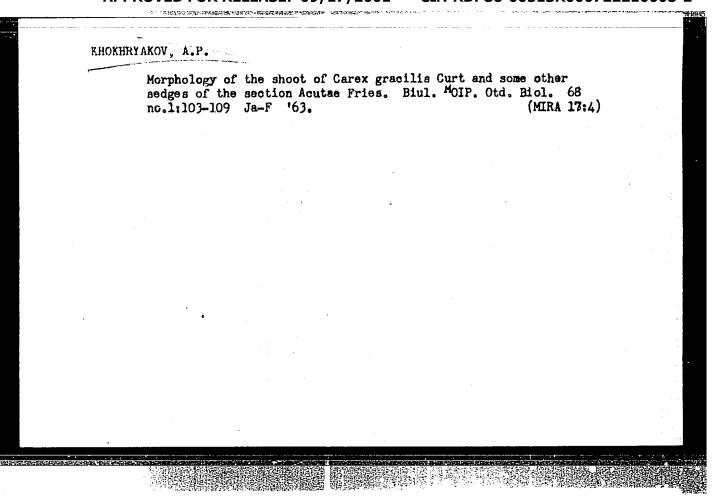
KHOKHRYAKOV, A.P.

Biological and morphological characteristics of the genus
Eremurus as related to its origin and evolution. Bot. zhur.
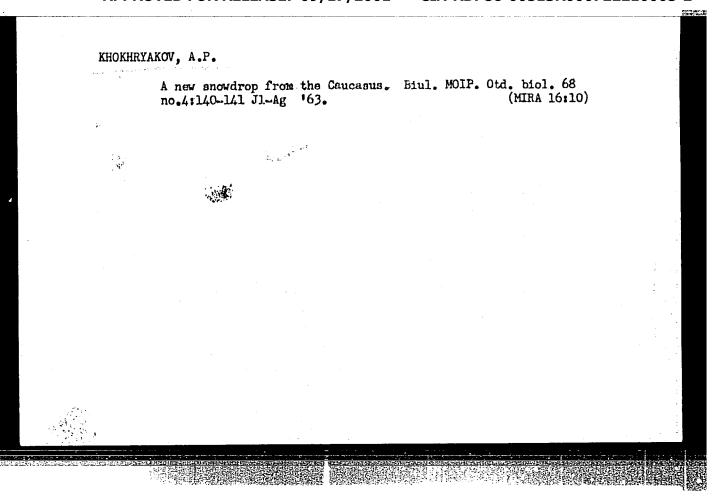48 no.9:1310-1320 S '63.   (MIRA 16:11)

1. Glavnyy botanicheskiy sad, Moskva.

KHOKHRYAKOV, A.P.

Comparative biology of eremuri and other ephemeroids. Biul. Glav. bot. sada no.50:69-78 '63.   (MIRA 17:1)

1. Glavnyy botanicheskiy sad AN SSSR.

KHOKHRYAKOV, A.P.

Morphology of the shoot of Carex gracilis Curt and some other
sedges of the section Acutae Fries. Biul. ᴹOIP. Otd. Biol. 68
no.1:103-109 Ja-F '63.   (MIRA 13:4)

KHOKHRYAKOV, A.P.

A new snowdrop from the Caucasus. Biul. MOIP. Otd. biol. 68
no.4:140-141 Jl.-Ag '63.   (MIRA 16:10)

KHOKHRYAKOV, A.P.

New species of Corydalis from Mount Achishkho. Biul. Glav. bot.
sada no.56:42-44 '64.   (MIRA 18:5)
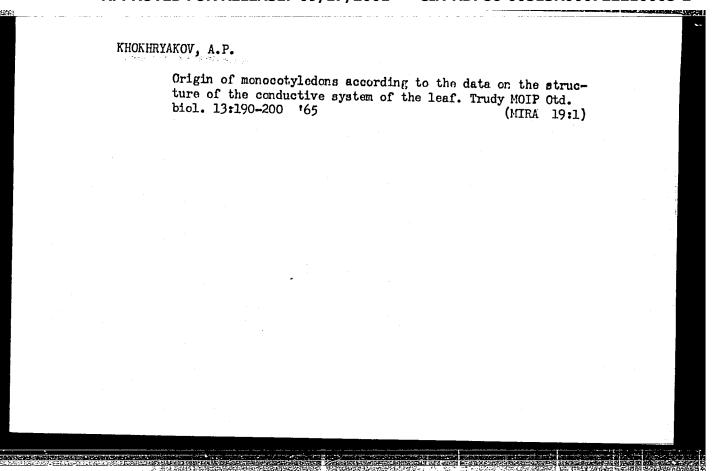
1. Glavnyy botanicheskiy sad AN SSSR.

KHOKHRYAKOV, A.P.

Archeophytes and the nemoral complex in the flora of the
taiga. Bot.zhur. 50 no.2:240-244 F '65.

(MIRA 18:12)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva. Submitted
March 2, 1964.

KHOKHRYAKOV, A.P.

Origin of monocotyledons according to the data on the struc-
ture of the conductive system of the leaf. Trudy MOIP Otd.
biol. 13:190-200 '65   (MIRA 19:1)

KHOKHRYAKOV, Andrey Pavlovich; KUL'TIASOV, M.V., otv. red.;
        PASHKOVSKIY, Yu.A., red.

    [Eremurus and its cultivation] Eremurusy i ikh kul'tura.
    Moskva, Nauka, 1965. 126 p.   (MIRA 18:9)

KARASEVA, A.N.; AFANAS'YEV, D.S.; KHOKHRYAKOV, A.S.

Investigation of epidemiology of diphyllobothriasis in
Astrakhan Province. Med.paraz. i paraz. bol.24 no.3:253-
255 Jl-S '55.   (MLRA 8:12)

1. Iz Astrakhanskoy oblastnoy protivomalyariynoy stantsii
(glavnyy vrach. P.S.Yegorova)
     (TAPEWORM INFECTIONS, epidemiology,
          diphyllobothriasis in Russia)

KHoKHRyAkou, A.Y.

16(1)

PHASE I BOOK EXPLOITATION   SOV/2660

Vsesoyuznyy matematicheskiy s"yezd. 3rd, Moscow, 1956

Trudy. t. 4: Kratkoye soderzhaniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959. 247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Tech. Ed.: G.M. Shevchenko; Editorial Board: A.A. Abramov, V.G. Boltyanskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M. Nikol'skiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, E.A. Pyanikov, P. L. Ul'yanov, V.A. Uspenskiy, N.G. Chetayev, O. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover various topics in number theory, algebra, differential and integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Lobachev, B.N. (Krasnodar). On the generalization of the theory of linear integral equations of N.M. Nazarov   33

Bryantsev, I.B. (Leningrad). Certain formulas of the Prandtl method and their application to the problem on the evaluation of error of approximate methods of solution of integral equations   34

Ryabkin, A.D. (Minsk), Ye. G. Dubar' (Moscow), and A. Ya. Khurgin (Polotsk). Two modifications of the concept of a dynamic system on the plane   35

Panich, O.I. (Odessa). Asymptotic expansions of the solution of partial differential equations in powers of a small parameter at highest derivative   36

Barulov, M.L. (L'vov). Subtraction method for the solution of boundary value and mixed problems   36

Rubitskiy, Ya. B. (Zhdanov). On integral equations with exponential nonlinearities   37

Card 8/34

AUTHOR: Myshkis, A.D. and Khokhryakov, A.Ya.   SOV/39-45-3-6/7
               (Khar'kov, Izhevsk)

TITLE: Breaking Dynamical Systems. I. Singular Points in the Plane
               (Bushuyushchiye dinamicheskiye sistemy. I. Osobyye tochki na
               ploskosti)

PERIODICAL: Matematicheskiy sbornik, 1958, Vol 45, Nr 3, pp 401-414 (USSR)

ABSTRACT: The notion of the "systèmes déferlants" of Vogel [Ref 2-7] is
               is defined in metric spaces in extraordinary generality. Then
               the authors restrict themselves, however, to the consideration
               of n differential equations in the plane with m critical curves,
               on which the solution of the i-th equation is replaced by the
               solution of the j-th equation. The correspondence $j = j(i)$ is
               given. The cases $n = 2$, $m = 1$; $n = 2$, $m = 2$ are considered
               more detailed. Stability- and instability conditions are set
               up. As usual in the control theory a multisheet phase plane is
               introduced in which the partial solutions are combined. A
               continuation of the paper is said to be dedicated to boundary
               cycles.
               There are 9 references, 3 of which are Soviet, and 6 French.

Card 1/2

Breaking Dynamical Systems. I. Singular Points in the Plane SOV/39-45-3-6/7

SUBMITTED: February 11, 1957

1. Mathematics--Control systems   2. Topology--Applications

Card 2/2

67062

16(1) 16.3400

SOV/44-59-9-9072

Translation from: Referativnyy zhurnal.Matematika,1959,Nf 9,p 83 (USSR)

AUTHOR: Khokhryakov,A.Ya.

TITLE: On the Question of the Stability of Singular Points of a System of Differential Equations

PERIODICAL: Uch.zap.Udmurtsk.gos.ped.in-ta,1958,vyp.12,62-64

ABSTRACT: The paper is devoted to the investigation of the behavior of stability of the singular points in the large for the dynamic system

(1) $\dfrac{dx}{dt} = a(x,y) \equiv a_1 x + a_2 y + a_{11} x^2 + a_{12} xy + a_{22} y^2$,

   $\dfrac{dy}{dt} = b(x,y) \equiv b_1 x + b_2 y + b_{11} x^2 + b_{12} xy + b_{22} y^2$,

where $a_1, a_2, \ldots, b_{22}$ are constants, where the following conditions are satisfied:

1) $a_1 a_2 a_{12} - a_1^2 a_{22} - a_{11} a_2^2 \neq 0$,

   $b_1 b_2 b_{12} - b_1^2 b_{22} - b_{11} b_2^2 \neq 0$.

Card 1/2

2) the non-decomposing curves of second order

   $a(x,y) = 0$, $b(x,y) = 0$

intersect in four different points.

V.V.Nemytskiy

Card 2/2

AUTHOR: Khokhryakov, A.Ya.

TITLE: On the problem of the origin of limit cycles

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika.
no.6, 1962, 145-147

TEXT: The equation

$$y' = \frac{P(x, y, \lambda)}{Q(x, y, \lambda)}$$

where λ is a
parameter and P and Q have continuous derivatives in all
variables to as high an order as necessary, is considered.
The equation is transformed to normal coordinates.   Following
V.A.Chechik (UMN, v.10, no.1, 1955) and V.F.Tkachev (DAN SSSR,
v.116, no.4, 1957) the increment $\phi(n_0, \lambda)$ in the coordinate n
at the point $s(0, n_0)$ (s is arc length) on the integral line
$n = n(s, \lambda)$ of the equation $(dn)/(ds) = F(s, n, \lambda)$ where

$$F = \frac{y''(s) - nx''(s) - fx'(s) - nfy''(s)}{x'(s) + fy'(s)}$$

for a full circuit round the periodic solution

Card 1/2 $x = x(s), y = y(s)$ $(0 \leqslant s \leqslant w)$ (L)

On the problem of the origin ...

S/140/62/000/006/005/006
E031/E435

is considered.   The solution (L) is said to give rise to m limit
cycles ·if for any sufficiently small range of λ there are
m limit cycles in an ϵ-neighbourhood of (L).   The conditions
under which (L) gives rise to one or more limit cycles are
embodied in the form of theorems.   For example if $\Psi'_n(n,\lambda)$
evaluated at $n = 0$, $\lambda = \lambda_0$ is non-zero, (L) gives rise to a
single limit cycle.   When two limit cycles arise the conditions
under which one is stable while the other is unstable and the
conditions for arbitrary stability are given.

ASSOCIATION: Udmurtskiy gosudarstvennyy pedagogicheskiy institut
             (Udmurt   State Pedagogic Institute)

SUBMITTED: October 26, 1959

Card 2/2

AZBELEV, N.V.; KHOKHRYAKOV, A.Ya.; TSALYUK, Z.B. (Izhevsk)

Theorems on differential inequality for boundary value problems.
Mat. sbor. 59 (dop.):125-144 '62.   (MIRA 16:6)
(Boundary value problems)

KHOKHRYAKOV, A.Ya.

Periodic boundary value problem for a nonlinear differential
equation of the third order. Vestsi AN BSSR. Ser.fiz.-mat.
nav. no.1:14-18 '65.   (MIRA 19:1)

KHOKHRYAKOV, A.Ya. (Mogilev)

Periodic boundary value problem for a third-order differential
equation. Mat. sbor. 63 no.4:639-645 Ap'64.   (MIRA 17:6)

KHOKHRYAKOV, A.Ya. (Izhevsk)

Stability of the periodic solution to a system of three differential
equations. Izv. vys. ucheb. zav.; mat. no.2:134-139 '63. (MIRA 16:3)
(Differential equations)

ACCESSION NR: AP4033687   S/0039/64/063/004/0639/0645

AUTHOR: Khokhryakov, A. Ya. (Mogilev)

TITLE: Periodic boundary value problem for a third order differential equation

SOURCE: Matematicheskiy sbornik, v. 63, no. 4, 1964, 639-645

TOPIC TAGS: periodic boundary condition, third order differential equation,
differential inequality, solution behavior, solution existence, solution uniqueness

ABSTRACT: The author studies the boundary value problem

$$L[y] \equiv y''' + a(x)y = f(x),\tag{1}$$

$$y(\alpha) - y(\beta) = 0, \quad y'(\alpha) - y'(\beta) = 0, \quad y''(\alpha) - y''(\beta) = 0,\tag{2}$$

where $a(x)$, $f(x)$ are continuous functions, and $a(x) \not\equiv 0$ is a function of constant
sign. The problem is that of uniqueness and existence of a solution of (1)-(2),
and the nonlinear boundary problem (3)

Card 1/3

ACCESSION NR: AP4033687

$$N[y] \equiv y'' + f(x, y) = 0, \qquad (3)$$

$$y(\alpha) - y(\beta) = 0, \quad y'(\alpha) - y'(\beta) = 0, \quad y''(\alpha) - y''(\beta) = 0,$$

with periodic boundary conditions. The author also investigates the behavior of the solutions and gives theorems on differential inequalities for the boundary value problems. The theorems for the linear problem concern existence of a unique solution for (1), algebraic sign of the solution, and comparison. For the non-linear problem, he gives theorems of comparison, existence-uniqueness under certain conditions, and finally, for a special form of the nonlinear problem

$$N_1[y] \equiv y'' + f_1(x, y)y - \varphi(x) = 0, \qquad (4)$$

he gives an existence, uniqueness comparison theorem under certain conditions on its constituents. Orig. art. has: 12 formulas.

ASSOCIATION: none

Card 2/3

KHOKHRYAKOV, B.D., inzh.

Deformation of shaped wire in the production of locked-coil wire
rope for hoisting. Stal' 20 no.9:862-864 S '60.   (MIRA 13:9)

1. Khartsyzskiy staleprovolochno-kanatnyy zavod.
                    (Wire rope)

KHOKHRYAKOV, B. D., Cand Tech Sci -- (′ ɔs) "Research into the pro-
cess of pulling shaped profiles of wire of small geometrical dimensions
for cables in closed structures." Kiev, 1960. 19 pp with illustrations;
(Ministry of Higher and Secondary Specialist Education Ukrainian SSR,
Kiev Order of Lenin Polytechnic Inst); 150 copies; price not given;
(KL, 28-60, 161)

BRAYNIN, I.Ye.; BUDINSHTEYN, R.I., Prinimali uchastiye: TURSUNOV, A.V.;
      KHARCHENKO, V.A.; KHOKHRYAKOV, B.D.; SEMKIN, A.T.; FILATOV, N.G.;
      KAREVA, A.G.

      Industrial experimentation in patenting rope wire in two baths.
      Izv.vys.ucheb.zav.; chern.met. 4 no.6:139-144 '61.   (MIRA 14:6)

      1. Donetskiy politekhnicheskiy institut.
         (Annealing of metals)   (Wire drawing)

Z/056/63/020/002/003/007
E073/E135

AUTHORS: Khokhryakov, B.D., Golubev, G.M. et al.

TITLE: Investigation of the vibrational drawing process

PERIODICAL: Hutnictví a strojírenství. Přehled technické a
             hospodářské literatury, v.20, no.2, 1963, 81,
             abstract HS 63-967. (Metallurg. i gornorud., no.3,
             1962, 70-73)

TEXT: Vibrational drawing of wire, i.e. drawing of the wire
through a vibrating die, was investigated in the Chartsizskiy
závod (Khartsysk Works). The experiments have shown that wire
produced in this way is superior to wire manufactured by current
methods; in particular the uniformity of the cross-section is
much greater.   4 figures, 1 table, 2 references.

[Abstracter's note: Complete translation.]

Card 1/1

GOLUBEV, T.M., doktor tekhn. nauk; DYADECHKO, P., inzh.;
KHOKHRYAKOV, B.D. [deceased]

Influence of vibratory drawing on the quality of wire. Met.
i gornorud. prom. no.6:56-59 N-D '62.   (MIRA 17:8)

1. Kiyevskiy politekhnicheskiy institut (for Golubev, Dyadechko).
2. Khartsyzskiy staleprovolochno-kanatnyy zavod (for Khokhryakov).

KHOKHRYAKOV, Boris Dmitriyevich; GOROFINCHENKO, V.M., red.izd-va;
        DOBUZHINSKAYA, L.V., tekhn. red.

    [Locked-coil ropes for hoisting] Zakrytye pod"emnye kanaty.
    Moskva, Metallurgizdat, 1963. 58 p.   (MIRA 16:5)
                        (Wire rope)

Khokhryakov, G.B.

KUZNETSOV, Boris Vasil'yevich; SHPINAR, Ivan Ivanovich; SOLOV'YEV, N.I.,
   retsenzent; KHOKHRYAKOV, G.B., retsenzent; TATISHCHEV, V.I.,
   kandidat tekhnicheskikh nauk, redaktor; SHLENNIKOVA, Z.V., redaktor·
   izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Parts of ship machinery] Detali sudovykh mashin. Pod red. V.I.
Tatishcheva. Moskva, Izd-vo "Rechnoi transport," 1957. 471 p.
      (Marine engineering)   (MIRA 10:9)

KUPRIYANOV, Dmitriy Fedorovich; METAL'NIKOV, Georgiy Fedorovich;
SOKOLOV, Yu.P., inzh., retsenzent; KHOKHRYAKOV, G.B.,
retsenzent; SMIRNOV, S.A., kand. tekhn. nauk, dots., nauchn.
red.; ALEKSANDROVA, N.B., red. izd-va; VOLCHOK, K.M., tekhn.
red.

[Fundamentals of technical mechanics] Osnovy tekhnicheskoi me-
khaniki. Leningrad, Izd-vo "Rechnoi transport," 1962. 387 p.
(MIRA 15:9)
(Mechanics, Analytic) (Mechanical engineering)
(Strength of materials)

KHOKHRIAKOV, M. K.

KHOKHRIAKOV, M. K.   "About the Species Name of a Fungus from the Genus Cercospora on
Chorium intybus L.," Bolezni Rastenii, Vestnik Otdela Fitopatologii Glavnogo
Botanicheskogo Sada SSSR, vol. 19, no. 1-2, 1930, pp. 88-89.   464.2 Z6

So: Sira S1-19-53, 15 Dec 1953

Кпокнятакоff (M. K.). Микологические заметки. [Mycological notes.]—Bull. Plant Protection, Leningrad, v, 1, pp. 125-129, 1932. [French summary.]

In these notes the author points out that the binomial *Ascochyta trifolii* [for a clover leaf-spotting fungus: *R.A.M.*, vi, p. 99; viii, p. 339] was used by Bondartsoff and Mme Troussova to name a fungus described by them in 1913, and by Siemaszko in 1914 to rename *Phleospora trifolii* Cav. var. *recedens* Massalongo. A careful examination of type material of these two species has convinced him of their identity, and the presence in their stylospores of two or three transverse septa leads him to transfer the organism, in agreement with the taxonomy suggested by Diedecke, into the genus *Stagonosporopsis*. The fungus should henceforth be known under the new combination *S. trifolii* (Cav.) Khokhr.

AM

KNOKHRYAKOFF (M. K.). Новые виды грибных паразитов на новых лубяных растениях. [New species of parasitic fungi on the new fibre-yielding plants.]—или Болезни и вредители новых лубяных культур [Diseases and pests of new cultivated textile plants], pp. 61–67, 8 figs, Полуофициальный. ВАСХНИЛ [Inst. New Bast Raw Material VASKhNIL], Moscow, 1933.

Russian descriptions and Latin diagnoses are given of 15 species of parasitic fungi considered to be new to science which have been collected on the territory of the Russian Soviet Republics on species of *Abutilon*, kendir fibre (*Apocynum venetum*), ramie (*Boehmeria nivea*), jute (*Corchorus capsularis*), *Asclepias cornutus*, and ambari hemp (*Hibiscus cannabinus*). In addition to those of which a preliminary description has already been cited [R.A.M., xii, p. 651] the following are included. *Stagonospora abutilonis* Choehr. on *Abutilon avicennae* leaves causes whitish spots with a narrow brown margin. The pycnidia are up to 130 μ in diameter, with a prominent ostiole, and contain 3- to 7-septate, straight or slightly curved, subhyaline (cinnamon in mass) pycnospores, 16 to 31 by 4 to 6 μ. *Septoria abutilonis* Choehr. on *A. dinrnoidn* leaves forms cinnamon-grey to yellow spots up to 5 mm. in diameter, with an indistinct dark margin. The subglobose pycnidia are up to 140 μ in diameter and contain cylindrical, slightly curved, indistinctly septate pycnospores, narrowed at one end, and 45 to 77 by 3 to 4 μ. *Leptosphaeria apocyni* Tkandars. on *Apocynum venetum* stems forms white spots up to 10 mm. long, with erumpent perithecia up to

KHOKHRIAKOV, M. K.

"List of Fungi Occurring on New Cultivated Textile Plants," Trudy Instituta Novogo Lubianogo Syr'ia, no. 4, 1933, pp. 127-140.   73.9 M85

So: Sira - S1-90-53, 15 Dec. 1953

KHOKHRIAKOV, M. K.

KHOKHRIAKOV, M. K. "A Study of Crop Plant Diseases on Kolsky Peninsula,"
Vestnik Zashchity Rastenii, no. 1-2, 1940, pp.245-250. 421 P942

So: SIRA SI-90-53, 15 Dec. 1953

KHOKHRIAKOV, M. K.

KHOKHRIAKOV, M. K. "Specialization of the Species of Rusts of Cereals in the Non-chernozem Zone of USSR," Vestnik Zashchity Rastenii, no. 1, 1941, pp. 116-125.
421 P942

So: Sira S1-19-53, 15 Dec 1953

KHOKHRIAKOV, M.Y.

KHOKHRIAKOV, M. Y.   "A Little Known Disease of Winter-sown Cereals (Sclerotinia),"
Zashchita Rastenii, no. 4, 1935, pp. 94-97. 421 F942

So: Sira Sl-19-53,   15 Dec 1953

1. KHOKHRYAKOV, M. K.

2. USSR (600)

7. "Some Problems in the Systematism of Fungi", Trudy Vsesoyuzn. In-ta Zashchity Rasteniy (Works of the All-Union Institute of Plant Protection), No. 3, 1951, pp 222-234.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132, Unclassified.

1. KHOKHRYAKOV, M.K. (Editor)

2. USSR (600)

7. S.M. Kolkov, Bolezni i Povrezhdeniya Klubney Kartofelya (Diseases and Injuries of the Tuberous Potato), Under the Editorship of M.K. Khokhryakov, 64pp, Leningrad, 1951.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

KHo
KOKHRYAKOV, M. K.

Review of Applied Mycology
June 1954

HOHRYAKOV (M. K.). Специализация возбудителя инфекционного усыхания
    Лимонов (Deuterophoma tracheiphila Petri). [Specificity of the causal agent
    of infectious desiccation of Lemon trees (*Deuterophoma tracheiphila* Petri).]—
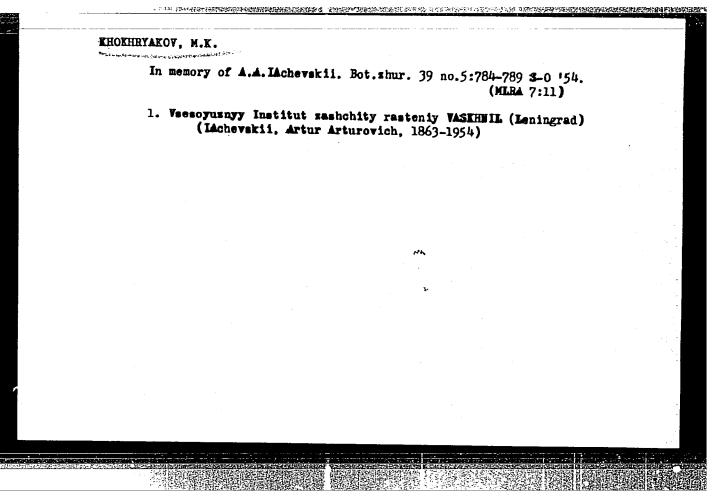   Микробиология [*Microbiology, Moscow*], 21, 2, pp. 210–218, 1952.

Extensive inoculation tests at the Pan-Soviet Scientific Research Institute of
Plant Protection, Leningrad, U.S.S.R., with *Deuterophoma tracheiphila* [see pre-
ceding abstract] showed that under local conditions the fungus is pathogenic and
equally dangerous to sour orange and the hybrid *Citrus junos* × *C. grandis* [*C.
maxima*], is intermediate in reaction to Kabo lemons, and less injurious to orange,
Meyer lemons, *C. limonelloides* var. *otaitensis*, mandarin (*C. unshiu*), *C. deliciosa*,
C. leiocarpa var. *praecox*, *Poncirus trifoliata*, and kumquat (*Fortunella margarita*).
Various strains of *D. tracheiphila* were found to behave differently in pure culture,
differences being apparent in the pigmentation of the mycelium and of the medium
(particularly striking on glucose agar), ranging from pale pink and bright orange
to dark or olive brown [*R.A.M.*, 29, p. 464], in its ability to form pycnidia and
conidia of the *Phialophora* state, and sometimes in the size of the conidia.

KHOKHRYAKOV, M.K.--

"Morphobiological Reasons for the Subtematics of Fungi of the Genus Helminthosporium (Senus lato) on Grasses." Dr Biol Sci, All-Union Sci Res Inst of Plant Protection, Leningrad, 1953. (RZhBiol, No 4, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

KHOKHRYAKOV, M.K.

In memory of A.A.IAchevskii. Bot.zhur. 39 no.5:784-789 S-0 '54.
(MLRA 7:11)

1. Vsesoyuznyy Institut zashchity rasteniy VASKHNIL (Leningrad)
(IAchevskii, Artur Arturovich, 1863-1954)

Khokhryakov, M.K.

VORONKEVICH, I.V.; GORLENKO, Mikhail Vladimirovich, professor; ZHURAVLEV,I.I.;
NOVOTEL'NOVA, N.S.; STEPANOV, K.M.; KHOKHRYAKOV, M.K.; GAMZAYEVA, M.,
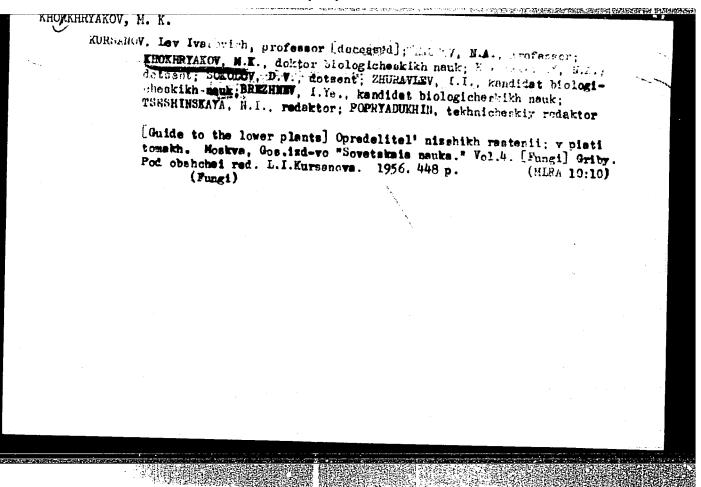tekhnicheskiy redaktor

[Fungi, men's friends and enemies] Griby - druz'ia i vragi cheloveka.
Pod red. M.V.Gorlenko. Moskva, Gos. izd-vo "Sovetskaia nauka,"
1956. 187 p.   (MLRA 10:8)
        (Fungi)

KHOKHRYAKOV, M. K.

KURSANOV, Lev Iva...vich, professor [deceased]; ..., N.A., professor; KHOKHRYAKOV, M.K., doktor biologicheskikh nauk; ..., dotsent; SOKOLOV, D.V., dotsent; ZHURAVLEV, I.I., kandidat biologicheskikh nauk; BREZHNEV, I.Ye., kandidat biologicheskikh nauk; TSESHINSKAYA, N.I., redaktor; POPRYADUKHIN, tekhnicheskiy redaktor

[Guide to the lower plants] Opredelitel' nizshikh rastenii; v piati tomakh. Moskva, Gos.izd-vo "Sovetskaia nauka." Vol.4. [Fungi] Griby. Pod obshchei red. L.I.Kursanova. 1956. 448 p.   (MLRA 10:10)
    (Fungi)

DOBROZRAKOVA, T.L.; LETOVA, M.F.; STEPANOV, K.M.; KHOKHRYAKOV, M.K.,
    doktor biologicheskikh nauk; AKHRIMOVICH, M.B., redaktor;
    OSMOLOVSKIY, G.Ye., redaktor; CHUMAYEVA, Z.V., tekhnicheskiy
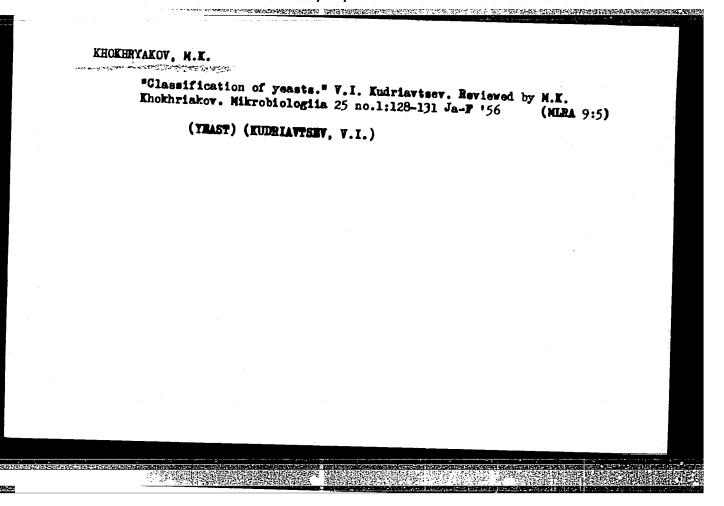   redaktor

[Catalog of plant diseases] Opredelitel' bolezhei rastenii. Pod red.
M.K.Khokhriakova. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 661 p.
    (Plant diseases)
                                                        (MIRA 10:3)

KHOKHRYAKOV, M.K.; VLADIMIRSKAYA, M.Ye.

Activity of the mycological section of the All-Union Botanical
Society during 1952-1955. Bot.zhur.41 no.1:143-151 Ja '56.
(MLRA 9:6)

1.Mikologicheskaya sektsiya Vsesoyuznogo botanicheskogo obshche-
stva , Leningrad.
(Botanical societies) (Fungi)

KHOKHRYAKOV, M.K.

"Classification of yeasts." V.I. Kudriavtsev. Reviewed by M.K. Khokhriakov. Mikrobiologiia 25 no.1:128-131 Ja-F '56   (MLRA 9:5)

(YEAST) (KUDRIAVTSEV, V.I.)

VAKIN, A.T., prof.; GOLOVIN, P.N., prof., doktor biolog.nauk; DOBROZRAKOVA, T.L., dotsent; ZHURAVLEV, I.I., doktor sel'skokhoz.nauk; POLYAKOV, I.M.; SOKOLOV, D.V., dotsent; STEPANOV, K.M., doktor biolog.nauk; TUPENEVICH, S.M., prof.; FEDORINCHIK, N.S., kand.sel'skhokhoz.nauk; FEDOTOVA, T.I., doktor sel'skokhoz.nauk; KHOKHRYAKOV, M.K., doktor biolog.nauk; CHIGAREV, G.A., kand.sel'skokhoz.nauk; YATSENKO, I.P., prof. [deceased]; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.
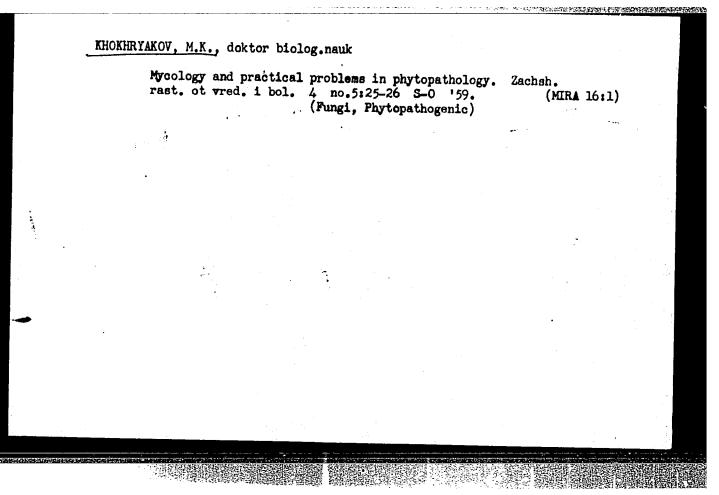
[A phytopathologist's dictionary - reference gook] Slovar'-spravochnik fitopatologa. Moskva, Gos.izd-vo sel'khoz.lit-ry. 1959. 414 p.

(MIRA 13:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Polyakov).
    (Plant diseases--Dictionaries)
    (Russian language--Dictionaries)

KHOKHRYAKOV, M.K., doktor biolog.nauk

Mycology and practical problems in phytopathology. Zachsh.
rast. ot vred. i bol. 4 no.5:25-26 S-O '59.   (MIRA 16:1)
                    (Fungi, Phytopathogenic)

KHOKHRYAKOV, M.K.

In memory of Nikolai Aleksandrovich Naumov. Bot.zhur. 44
no.12:1770-1778 D '59.   (MIRA 13:4)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
      (Naumov, Nikolai Aleksandrovich, 1888-1959)

KHOKHRYAKOV, Mikhail Kuz'mich, prof.; REUTSKAYA, O.Ye., red.; BARANOVA, L.G., tekhn. red.

[Injurious and beneficial fungi] Vrednye i poleznye griby. Lenin-grad, Gos. izd-vo sel'khoz. lit-ry, zhurnalov i plakatov. 1961. 102 p.

(Fungi)   (MIRA 14:8)

ANTONENKO, G.P., agronom; KHOKHRYAKOV, M.K., prof.; TERNOVSKIY, M.F., prof.

Peronospora (downy mildew) infection of tobacco in Czechoslovakia.
Zashch. rast. ot vred. i bol. 6 no.5:53-54 My '61. (MIRA 15:6)
(Czechoslovakia—Tobacco blue mold)

KHOKHRYAKOV, M.K.; CHUMAKOV, A.Ye.

Protection of pulse crops against main diseases. Zashch.
rast. ot vred. i bol. 7 no.2:28-31 F '62.   (MIRA 15:12)

1. Vsesoyuznyy institut zashchity rasteniy.
                (Legumes—Diseases and pests)

ZHIKHAREVA, Z.L.; KHOKHRYAKOV, M.K., prof.; D'YACHKOVSKAYA, R.V.

Coevals of the October Revolution. Zashch. rast. ot vred. i bol.
7 no.11:1-4   N '62.
(MIRA 16:7)

KHOKHRYAKOV, M.K., prof.

      Classification of parasitic fungi. Zashch. rast. ot vred. i bol.
      8 no.1:46-47 Ja '63.   (MIRA 16:5)

      1. Vsesoyuznyy institut zashchity rasteniy.
                        (Fungi, Phytopathogenic)

DUNIN, M.S., prof.; KHOKHRYAKOV, M.K., prof.; POPOVA, T.T., starshiy nauchnyy
sotrudnik; NAUMOVA, N.A., kand.sel'skokhoz.nauk

Outstanding scientists. Zashch. rast. ot vred. i bol. 8 no.12:4-7
D '63.   (MIRA 17:3)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im.
Timiryazeva (for Dunin). 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut l'na (for Popova). 3. Vsesoyuznyy institut zashchity ras-
teniy (for Naumova).

KHOKHRYAKOV, M.K.

Civic activities of A.A. Yachevskii. Bot. zhur. 48 no,6:
923-925 Je '63.   (MIRA 17:1)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.

KHOKHRYAKOV, M.K., doktor biolog. nauk

At the 10th International Botanical Congress. Zashch. rast. ot
vred. i bol. 9 no.12:52-53 '64.   (MIRA 18:4)

1. Vsesoyuznyy institut zashchity rasteniy.

BONDARTSEV, A.S.; VLADIMIRSKAYA, M.Ye.; GOLOVIN, P.N.; TROPOVA, A.T.;
KHOKHRYAKOV, M.K.; CHEREPANOVA, N.P.

Work of the mycological section of the All-Union Botanical
Society during the period November 1958-December 1962. Bot.
zhur. 49 no.2:311-318 F '64.   (MIRA 17:6)

GOLOVIN, P.N.; BONDARTSEV, A.S.; KHOKHRYAKOV, M.K.; DOBROZRAKOVA, T.L.; TROPOVA,
    A.T.; CHEREPANOVA, N.P.

Activities of the Mycological Section of the All-Union Botanical
Society for the period January 1963-July 1964. Bot.zhur. 49 no.11:
1688-1692 N '64.   (MIRA 18:1)

1. Vsesoyuznoye botanicheskoye obshchestvo
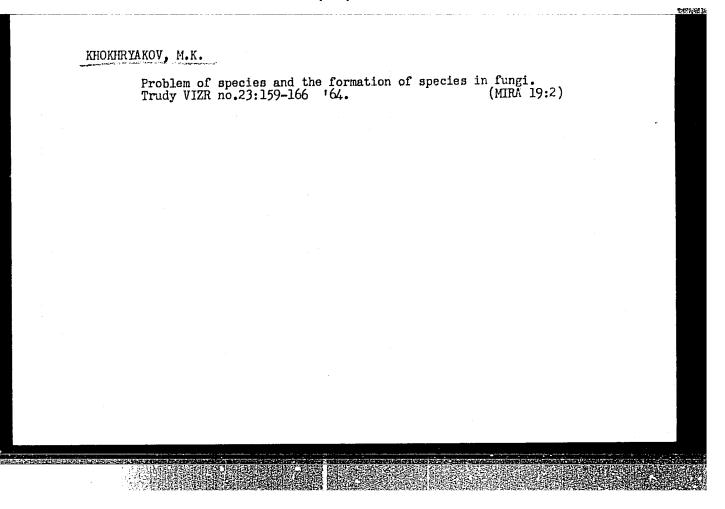
KHOKHRYAKOV, M.K.; NOVOTEL'NOVA, N.S.; POTLAYCHUK, V.I.

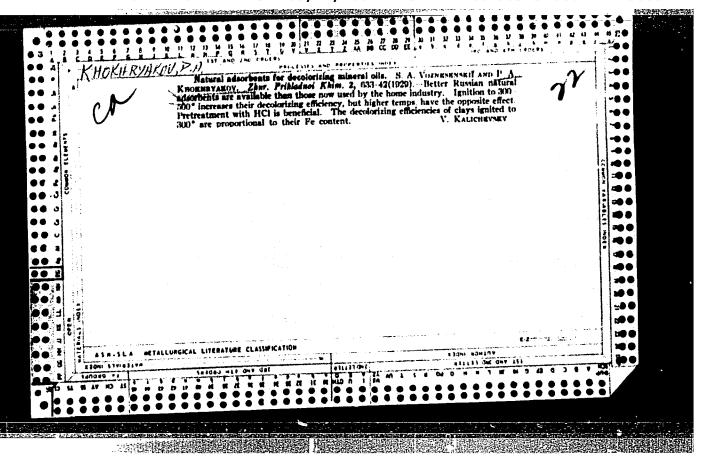New fungus diseases of cultivated plants in the U.S.S.R. Trudy
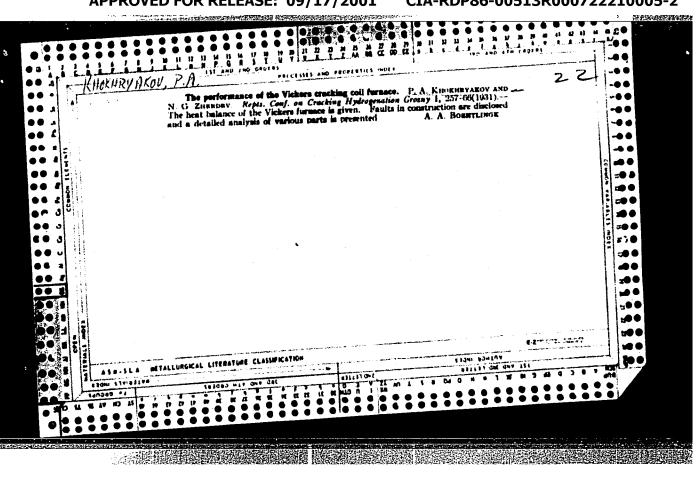VIZR no.17:216-247 '63.   (MIRA 1? 9)

KHOKHRYAKOV, M.K.

        On the 100th birthday of Professor Artur Arturovich IAchevskii
(1863-1932). Trudy VIZR no. 23:19-27 '64   (MIRA 19:2)

KHOKHRYAKOV, M.K.

      Problem of species and the formation of species in fungi.
      Trudy VIZR no.23:159-166 '64.   (MIRA 19:2)

KHOKHRYAKOV, P.P.

Natural adsorbents for decolorizing mineral oils. S. A. Voznesenskii and P. P. Khokhryakov. *Zhur. Prikladnoi Khim.* 2, 633-42(1929). Better Russian natural adsorbents are available than those now used by the home industry. Ignition to 300-700° increases their decolorizing efficiency, but higher temps. have the opposite effect. Pretreatment with HCl is beneficial. The decolorizing efficiencies of clays ignited to 300° are proportional to their Fe content. — V. Kalichevsky

ASM-SLA   METALLURGICAL LITERATURE CLASSIFICATION

KHOKHRYAKOV, P.A.

PROCESSES AND PROPERTIES INDEX

22

The performance of the Vickers cracking coil furnace. P. A. KINKHRYAKOV AND N. G. ZHERDEV. *Repts. Conf. on Cracking Hydrogenation Grozny* 1, 257-66(1931).— The heat balance of the Vickers furnace is given. Faults in construction are disclosed and a detailed analysis of various parts is presented A. A. BOETTLINGK

METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

CA

1ST AND 2ND ORDERS

Calculation of bubble towers for periodical operation. *L*
S. N. Chuvadzhiev and P. A. Khokhryakov. *Neftyanoe*
Khozyaistvo 30, No. 1, 80-8(1954); cf. *C. A.* 37, 6061.
A. A. Boehtlingk .

2YM. II.A   METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

First commercial-scale operations in refining oils by means of selective solvents. P. A. Khokhryakov, P. F. Reshetnyak and I. P. Getmanov. Neftyanoe Khozyaistvo 28, No. 8, 60–5(1935).—In the batch treatment of lubricating oils with nitrobenzene, the exptl.-lab. results were confirmed, although the process must be carried out continuously with counter-current flow to obtain the best results.
A. A. Boehtlingk

METALLURGICAL LITERATURE CLASSIFICATION

Calculation of the extraction section of the selective-solvent equipment for petroleum oils. P. A. Khokhlushkov and D. N. Burilov. *Neftyanoe Khoz.* 1936, No. 11, 60-9. A review, covering mixing towers with fillers and mixers with agitators. A. A. Bochhinek

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

22

CA

Improving the laboratory investigations of the selective refining of lubricating oils. P. A. Khokhryakov. Neftyanoe khoz. 1939, No. 1, 48 ff. Criticism of the technique adopted in Russia and various recommendations for its improvement are made. A. A. Rochtling.

METALLURGICAL LITERATURE CLASSIFICATION

CA

New (Soviet) standards for turbine and transformer oils.
P. A. Khokhryakov. *Neftyanoe Khoz.* 1939, No. 1, 25 d.

22

METALLURGICAL LITERATURE CLASSIFICATION

KHOKHRYAKOV, P. A.

Reducing the cost of building petroleum refining plants, USSR,
by A. I. Zel'kovich and P. A. Khokhryakov. New York, USJPRS; 1960.
   116 p. diagrs., tables (JPRS:3471)
   Translated from the original Russian: Put i snizheniya stoimosti
sooruzheniya neftepererabatyvayushchikh zavodov. Moscow, 1959.

KHOKHRYAKOV, P.

AID P - 209

Subject   :   USSR/Engineering

Card   :   1/1

Author   :   Khokhryakov, P.

Title   :   Formula of Counter Flow Extraction

Periodical :   Neft. khoz., v. 32, #3, 41, Mr 1954

Abstract   :   Three methods of extraction from a liquid by a liquid
                are outlined (single and multi-stage flow and counter
                flow) and formulas for reducing concentration by each
                method are presented.

Institution :   None

Submitted   :   No date

KHOKHRYAKOV, P.A.; ALFIMOVA, Ye.A.

Increasing the efficiency of extraction columns. Khim.i tekh.
topl.i masel no.5:48-53 My '57.   (MIRA 10:7)

1. Ministerstvo neftyanoy promyshlennosti.
                    (Distillation apparatus)

KHOKHRYAKOV, P.A.

AUTHORS: Savinskiy, I. S. and Khokhryakov, P.A. 65-1-5/14

TITLE: Isopentane in Crude Oil and Accompanying Gases as Raw Material for the Manufacture of Synthetic Rubber. (Izopentan v nefti i poputnykh gazakh - syr'ye dlya proizvodstva kauchuka).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel,1958,Nr.1.pp.23-24. (USSR).

ABSTRACT: Isopentane, obtained from crude oil and accompanying gases, makes it possible to increase considerably the sources of raw materials for the synthetic rubber industry and to reduce considerably imports from abroad. Isopentane can be obtained from products produced during catalytic cracking. These products contain up to 3% weight of isopentane and up to 4 - 4.5% of amylenes. 20,000 t/year of isopentane or 30,000 t/year of isopentane-amylene fractions can be obtained from catalytic cracking processes. An alternative source of isopentane are the accompanying gases which contain up to 3% pentane fractions, the pentane fraction itself comprises up to 1/3rd of isopentane. The gas works of the Tatar and Bashkir Republics will produce in 1965 about 12 t of pentane fraction for every 1,000,000 m^3 of processed gas, from which up to 4 t of isopentane will be obtained.

Card 1/2

65-1-5/14

Isopentane in Crude Oil and Accompanying Gases as Raw Material for the Manufacture of Synthetic Rubber.

This can be increased by isopentane obtained by isomerisation of n-pentane. The pentane constitutes 1% - 1.5% of crude petroleum. The isomerisation of n-pentane has been investigated by LenNII. High yields of isomers were obtained. The first plant for isomerisation processes is to be erected in one of the Eastern Regions of the country, and will have an annual output of 60,000 t of isopentane.

ASSOCIATION: Fiziko-khimicheskiy institut im. Karpova (Institute of Physical Chemistry imeni Karpov)

AVAILABLE: Library of Congress.

Card 2/2

The Manufacture and Uses of Benzene   SOV/65-58-12-15/18

siderably. This can be achieved by using new catalytic
and pyrolytic processes, demethylation of higher aromatics
and the hydrogenation of coal. There are 2 Tables.

Card 2/2

ZEL'KOVICH, Abram Iosifovich; KHOKHRYAKOV, Pavel Aleksandrovich;
        KLEYMENOVA, K.F., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Ways to lower the construction cost of petroleum refineries]
Puti snizheniia stoimosti sooruzheniia neftepererabatyvaiu-
shchikh zavodov. Moskva, Gos.nauchno-tekhn.izd-vo neft. i
gorno-toplivnoi lit-ry, 1959. 105 p.   (MIRA 12:7)
                    (Petroleum refineries)

BORISOVICH, Grigoriy Fedorovich; TRUTNEV, Nikolay Aleksandrovich;
     KHOKHRYAKOV, Pavel Aleksandrovich; KLEYMENOVA, K.F., vedushchiy
     red.; GAVINA, L.V., tekhn.red.

[Hydrocarbon gases as raw materials in petroleum chemistry]
Uglevodorodnye gazy - syr'evye resursy neftekhimii. Moskva,
Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960.
75 p.   (MIRA 14:1)
          (Petroleum)   (Hydrocarbons)

15.4100   77552
                                                 SOV/65-60-2-12/15

AUTHORS: Andrianov, V. M., Khokhryakov, P. A.

TITLE: Concerning the Selection of the Process Flow Diagram for
                Petroleum Refineries

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, Nr 2,
                pp 54-57 (USSR)

ABSTRACT: The final selection of the process flow diagram for
                petroleum refineries should be based on the requirements
                in petroleum products in a given region. In this respect
                three possible process flow diagrams are suggested.
                (1) When the stress is on a bright stock, the process
                flow diagram should include, besides atmospheric-vacuum
                distillation, rectification of distillates and treatment
                of gases, contact coking of all petroleum asphalts,
                catalytic cracking of coking distillates and vacuum
                gas oil, and thermal cracking of the heavy catalytic
                gas oil. The yield of bright stock in this case is

Card 1/2   over 70%, and that of fuel oil is 3.5%. (2) This

Concerning the Selection of the Process   77552
Flow Diagram for Petroleum Refineries   SOV/65-60-2-12/15

        process flow diagram is oriented to a lesser yield of
bright stock. Instead of coking, it employs viscosity
breaking of the petroleum asphalt. The yield of the
bright stock is 55-60%, and that of fuel oil is 26%.
(3) This flow diagram is employed where it is necessary
to increase the yield of fuel oil to 35%. It is done
by use of the vacuum gas oil (50% of it). The yield
of the bright stock decreases to 50% in this case.
In general, with the increase of fuel oil yield from
3 to 35%, the yield of gasoline decreases from 27 to
18%, and that of diesel fuel, from 33 to 23%. Process
flow diagrams 1 and 2 are suggested as the best for
the Soviet economy; diagram 3 can be used in a special case
There are 2 tables.

ASSOCIATION: NIITEKhIM (NIITEKhIM)

Card 2/2

Economic indices of the production of diesel fuel. Khim.i tekh.
topl.i masel 5 no.8:46-51 Ag '60.   (MIRA 13:8)

1. Nauchno-issledovatel'skiy institut tekhniko-ekonomicheskikh
issledovaniy Goskomiteta Soveta Ministrov SSSR po khimii.
        (Diesel fuels)

ANDRIANOV, V.M.; KHOKHRYAKOV, P.A.

Economic aspects of the manufacture of aromatic hydrocarbons. Khim.
i tekh. topl. i masel 6 no. 5:44-48 My '61.   (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut tekhniko-ekonomicheskikh
issledovaniy Goskomiteta Soveta Ministrov SSSR po khimii.
                    (Hydrocarbons) (Petroleum industry)

BORISOVICH, G.F.; KHOKHRYAKOV, P.A.; ROZINA, R.A.

Development of the production of ethylene, propylene, and
acetylene. Khim. prom. no.8:561-566 Ag '63.   (MIRA 16:12)

KHOKHRYAKOV, P.A., kand. tekhn. nauk; SHPUNT, M.I., inzh.

Designing systems for automatic quality control of petroleum
products. Mekh. i. avtom. proizv. 19 no. 10:16-18 O '65.
(MIRA 18:12)

L 27811-66   EWT(d)/EWT(m)/EWP(q)/T/EWP(v)/EWP(k)/ETC(m)-6/EWP(l)   IJP(c)   WW/JW/WE

ACC NR: AP6005794   (A) SOURCE CODE: UR/0118/65/000/010/0016/0018

AUTHOR: Khokhryakov, P. A. (Candidate of technical sciences); Shpunt, M. I. (Engineer)

ORG: none

TITLE: Circuits for automatic control of quality of petroleum products

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 10, 1965, 16-18

TOPIC TAGS: automatic control, automatic control system, automatic control theory, petroleum product, petroleum engineering

ABSTRACT: By using the results of running analyses of kerosine and diesel fuel produced by an atmospheric-and-vacuum tube still as a basis, an automatic control system for the still was developed. Two kerosine quality factors — flash point and 96% Engler boiling temperature — were selected for the automatic control. A correlation coefficient (0.168) and a correlation ratio (0.243) were calculated from the data of 476 analyses; the correlation proved to be linear and weak. For the diesel fuel, the 96% Engler boiling temperature was set. A principal flow diagram shows the general automatic features of the still designed on the basis of the above data. Orig. art. has: 2 figures and 1 table.

SUB CODE: 13, 09 / SUBM DATE: none

Card 1/1   UDC: 003.63.621.3.078:62.634.2

KOLDOVKIN, A.Ya., inzh.; Prinimali uchastiye: KHOKHRYAKOV, P.A., dotsent;
BONDARENKO, B.I., dotsent

Choice of a phenol-reclamation flowsheet in selective refining of
oils. Nauch.zap.Ukrniiproekta no.4:132-140 '61.   (MIRA 15:1)
(Phenols) (Petroleum--Refining)

KHOKHRYAKOV, V., kand. tekhn. nauk; SHAGANSKIY, R., inzh.; LEBEDEV, A., inzh.; ONISHENKO, I.; FEDIN, L.; TELYATNIKOV, Ya., akkumulyatorshchik

Readers' letters. Avt. transp. 37 no.12:43-44 D '59.

(MIRA 13:3)

1.Zhigulevskoye passazhirskoye avtokhozyaystvo (for Telyatnikov)
(Motor vehicles)

KHOKHRYAKOV, V., kand.tekhn.nauk

Selecting the type of a dumper for excavating machinery. Avt.transp. 39 no.2:10-12.F '61.   (MIRA 14:3)

1. Sverdlovskiy gornyy institut imeni V. V. Vakhrusheva.
          (Excavating machinery)

KHOKHRYAKOV, V.I.

Chem-6
(3)

C.A. V-48
Jan 10, 1954
Organic Chemistry

Reaction of ammonia with limonene monoxide. G. V. Pigulevskii and V. I. Khokhryakov (A. A. Zhdanov State Univ., Leningrad). *Doklady Akad. Nauk S.S.S.R.* 87, 779-81(1952).—Heating 8 ml. of limonene 1,2-monoxide (b_{16} 84°, d_{20} 0.9290, $[\alpha]_{D}$ 64.98°) with 25 ml. 25% NH_4OH in sealed tube 3 hrs. at 125° gave 70% $C_{10}H_{19}ON$, the *hydroxyamino deriv.*, being a viscous liquid, b_{16} 135°, d_{20} 1.0071, n_{D} 1.50285, $[\alpha]_{D}^{13}$ 16.03°. The product has a primary NH_2 group and OH as shown by Zerevitinov detn. of active H, but whose NH_2 group is rather unreactive since 115° was necessary for reaction with MeMgX. Apparently the product is *2-amino-$\Delta^{8(9)}$-p-menthen-1-ol*. The product crystallizes from H_2O as *pentahydrate*, needles, which lose H_2O *in vacuo* or on heating above 84°; the hydrate absorbs CO_2 from the air, forming $C_{10}H_{18}(OH)(NH_2).0.5H_2CO_3$, m. 95-7°, which loses CO_2 on boiling in H_2O. Treatment of aq. soln. of the amino alc. with 10% H_2SO_4 yields $C_{10}H_{18}$-$(OH)(NH_2).0.5H_2SO_4$, m. 231-3° (from EtOH-Et₂O).
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AK
7-28-54

KHOKHRYAKOV, V.K.

Efficient layouts for the general plan of open pit mines. Gor.zhur.
no.4:16-20   Ap '64.   (MIRA 17:4)

1. Ural'skiy gosudarstvennyy institut po proyektirovaniyu
razrabotki rudnykh mestorozhdeniy, Sverdlovsk.

KHOKHRYAKOV, V.S., dots; VOLOTKOVSKIY, S.A., prof; NOVOZHILOV, M.G., prof,

"Truck and tractor haulage in open pit mines" by M.V. Vasil'ev.
Review by V.S. Khokhriakov, Gor.zhur. no.11:80 N '48.
(MIRA 11:11)

1. Sverdlovskiy gornyy institut (for Khokhryakov, Volotkovskiy)
2. Dnepropetrovskiy gornyy institut (for Novozhilov)
        (Mine haulage)   (Strip mining) (Vasil'ev, M.V.)

KHOKHRYAKOV, V.S., gornyy inzhener.

Calculating the elements of the hauling cycle and productivity
of a dump truck in open-pit mining. Gor.zhur.no.12:42-46 D '55.
(Dump trucks)(Mine haulage)   (MIRA 9:4)